

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: McGRAW-EDISON

Report Number: P636771

Luminaire Tested: GWS-SA4B-740-U-SL3-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P636771
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-31)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4B-740-U-SL3-W
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III SPILL LIGHT ELIMINATOR OPTICS
Light Source: (64) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14182.2 lumens
Efficiency: N/A
Efficacy: 150.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

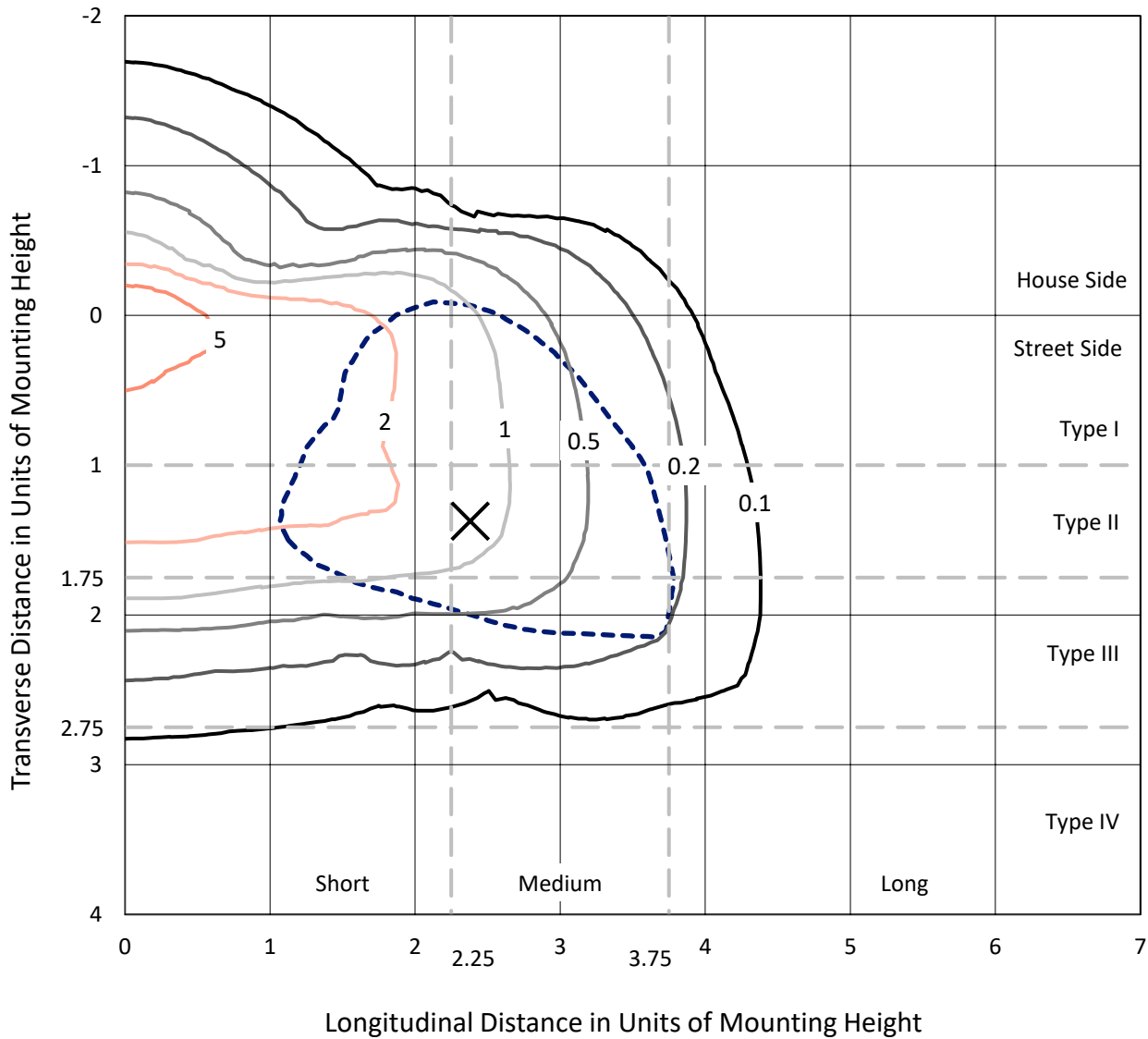
Input Watts (W): 94.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

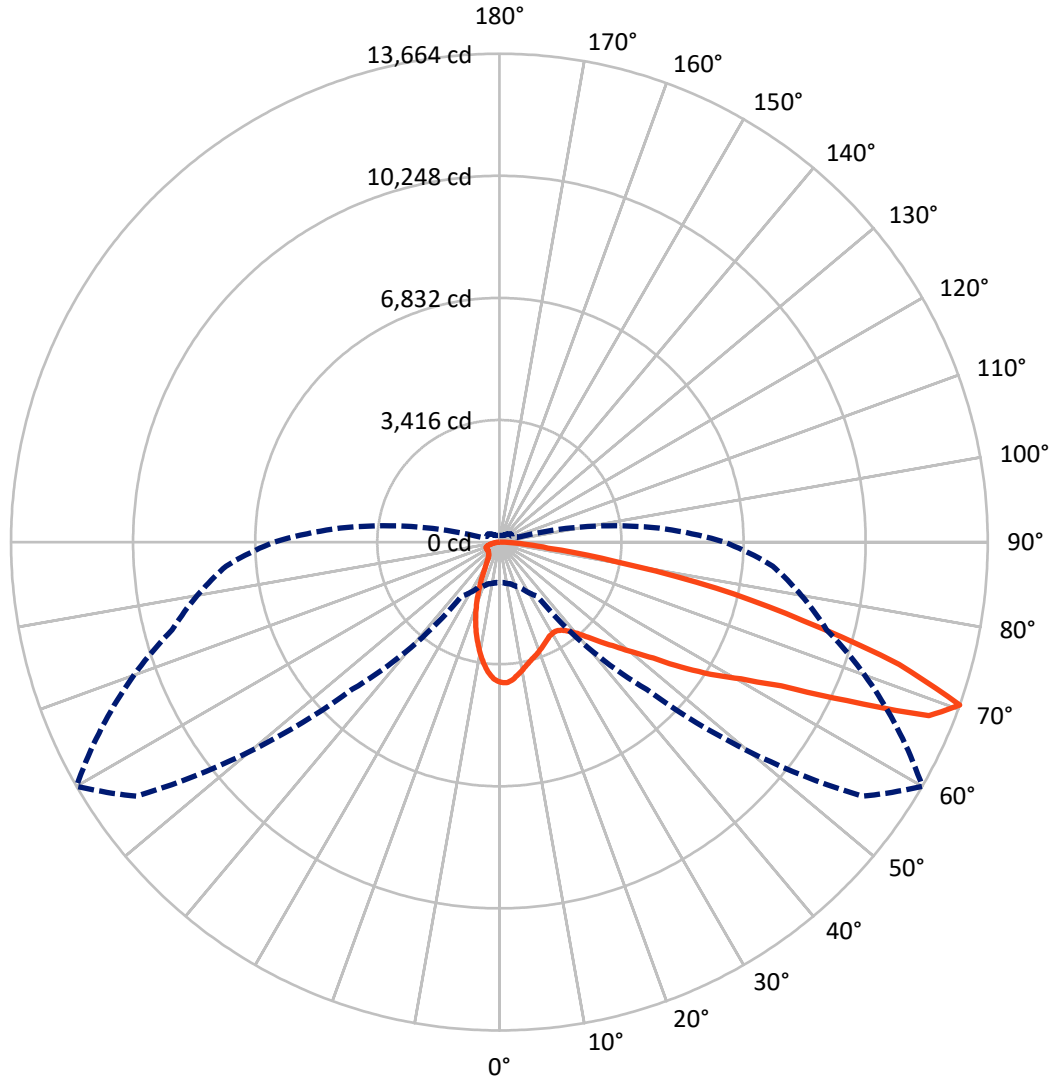
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 9.8 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 60-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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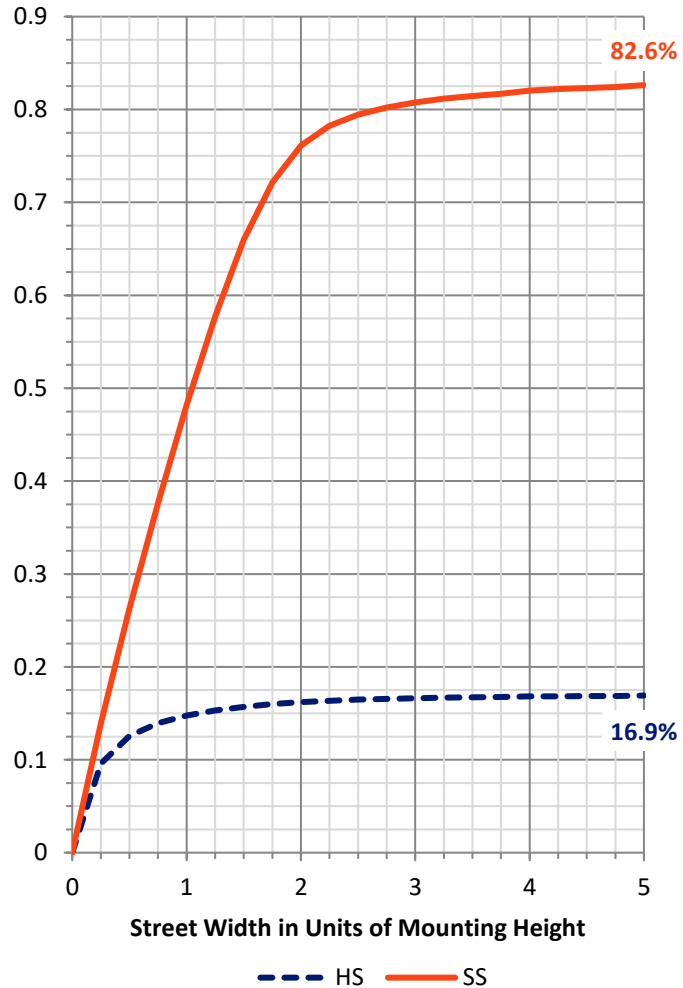
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2425.5	0.0	2425.5
	% Fixture	17.1	0.0	17.1
Street Side	Lumens	11756.7	0.0	11756.7
	% Fixture	82.9	0.0	82.9
Total	Lumens	14182.2	0.0	14182.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	338.3	2.4
10°-20°	757.8	5.3
20°-30°	970.5	6.8
30°-40°	1275.5	9.0
40°-50°	1850.5	13.0
50°-60°	2887.3	20.4
60°-70°	3780.0	26.7
70°-80°	2090.2	14.7
80°-90°	232.0	1.6
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	14182.2	100.0
0°-180°	14182.2	100.0

Coefficient of Utilization



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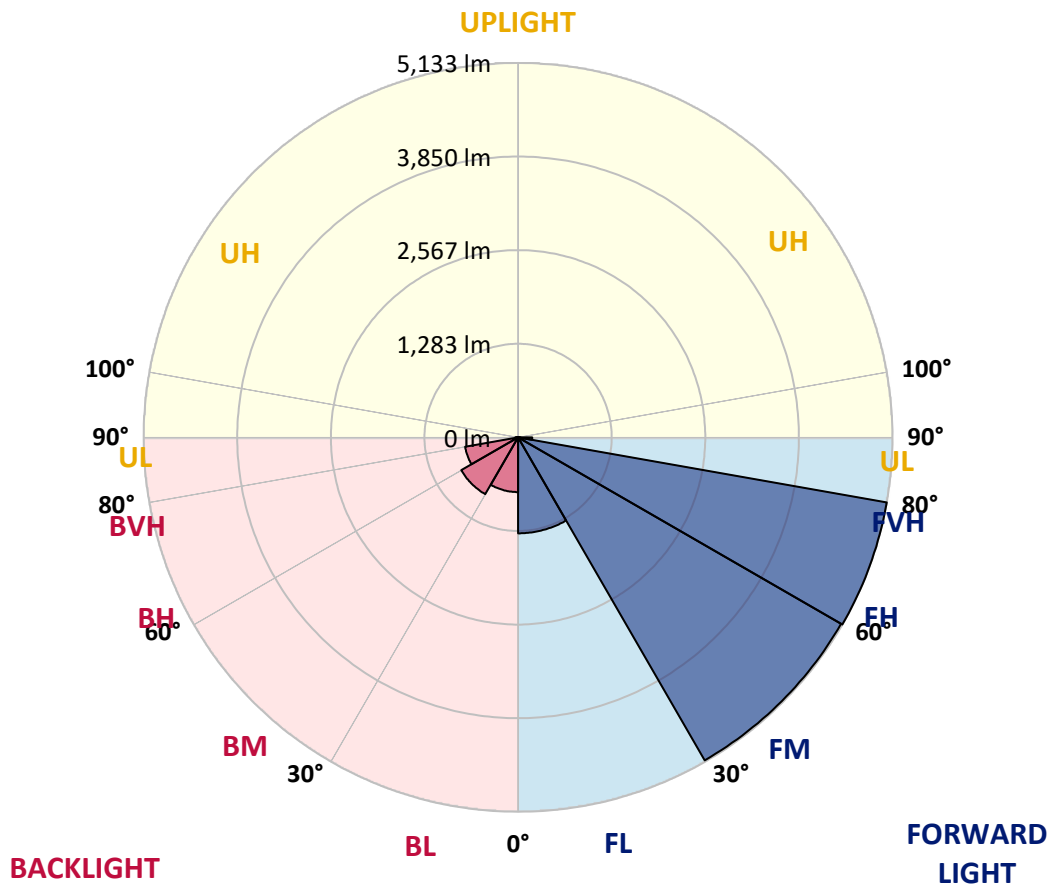
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1316.2	9.3			
FM (30°-60°)	5114.0	36.1			
FH (60°-80°)	5133.2	36.2			G3/7500
FVH (80°-90°)	193.3	1.4			G2/225
BL (0°-30°)	750.4	5.3	B2/1000		
BM (30°-60°)	899.3	6.3	B1/1000		
BH (60°-80°)	737.1	5.2	B2/1000		G2/1000
BVH (80°-90°)	38.7	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	3924.4	3924.4	3924.4	3924.4	3924.4	3924.4	3924.4	3924.4	3924.4	3924.4	3924.4
2.5°	3869.4	3873.6	3885.0	3901.6	3918.2	3926.5	3947.2	3941.0	3936.9	3928.5	3918.2
5°	3698.2	3706.5	3716.9	3749.0	3785.4	3814.4	3861.1	3866.3	3868.4	3872.5	3855.9
7.5°	3480.3	3482.4	3507.3	3549.8	3597.5	3647.3	3725.2	3747.0	3765.6	3786.4	3772.9
10°	3239.5	3244.7	3263.4	3324.6	3406.6	3480.3	3585.1	3621.4	3660.8	3706.5	3687.8
12.5°	3042.4	3043.4	3073.5	3138.9	3228.1	3327.7	3458.5	3502.1	3554.0	3625.6	3609.0
15°	2885.7	2885.7	2913.7	2969.8	3072.5	3189.7	3345.4	3401.4	3472.0	3568.5	3539.4
17.5°	2761.2	2762.2	2779.9	2839.0	2930.3	3060.0	3244.7	3320.5	3398.3	3525.9	3482.4
20°	2695.8	2690.6	2693.7	2730.1	2807.9	2933.4	3144.1	3232.3	3337.1	3496.9	3430.5
22.5°	2692.7	2683.4	2669.9	2673.0	2718.6	2822.4	3036.2	3143.0	3274.8	3473.0	3377.6
25°	2745.6	2735.2	2711.4	2684.4	2680.3	2742.5	2934.5	3055.9	3210.5	3462.6	3326.7
27.5°	2834.9	2827.6	2796.5	2756.0	2713.5	2711.4	2857.7	2984.3	3163.8	3473.0	3290.4
30°	2953.2	2940.7	2921.0	2869.1	2804.8	2738.4	2827.6	2945.9	3132.7	3506.2	3274.8
32.5°	3087.0	3079.7	3061.1	3009.2	2940.7	2834.9	2851.5	2954.2	3132.7	3564.3	3277.9
35°	3229.2	3228.1	3228.1	3193.9	3118.1	2986.4	2945.9	3024.8	3180.4	3657.7	3311.1
37.5°	3367.2	3366.1	3399.3	3411.8	3325.7	3183.5	3106.7	3165.9	3285.2	3795.7	3393.1
40°	3479.2	3483.4	3556.0	3618.3	3570.6	3438.8	3330.9	3361.0	3455.4	3991.8	3536.3
42.5°	3592.3	3603.8	3712.7	3822.7	3841.4	3727.2	3618.3	3635.9	3699.2	4251.3	3750.1
45°	3715.8	3721.0	3873.6	4027.1	4117.4	4050.0	3960.7	3984.6	3999.1	4571.9	4068.6
47.5°	3835.2	3848.6	4045.8	4256.4	4427.7	4421.4	4371.6	4364.4	4367.5	4962.0	4445.3
50°	3998.1	4017.8	4249.2	4503.4	4754.5	4869.7	4884.2	4829.2	4806.4	5395.8	4914.3
52.5°	4307.3	4307.3	4514.8	4764.9	5102.1	5387.5	5485.0	5394.8	5322.1	5854.4	5412.4
55°	4694.3	4710.9	4875.9	5078.3	5505.8	5932.3	6262.2	6162.6	5957.2	6353.5	5934.3
57.5°	4866.6	4887.3	5148.8	5463.2	6033.9	6551.7	7009.3	6974.1	6674.2	6872.4	6476.0
60°	4555.3	4598.9	4958.9	5486.1	6512.3	7551.0	7873.7	7771.0	7342.4	7417.1	7063.3
62.5°	3799.9	3847.6	4247.1	4982.8	6445.9	8631.2	9236.1	8857.4	8176.7	8105.1	7845.7
65°	2267.3	2265.2	2745.6	3721.0	5627.2	8931.1	11392.4	10685.7	9465.5	9049.4	8650.9
67.5°	1441.3	1438.2	1538.8	1971.5	3744.9	8196.4	12778.7	12962.3	11216.0	9743.5	8717.3
70°	1137.3	1136.2	1208.9	1406.0	1852.2	5832.6	12392.7	13663.8	12273.3	9478.9	7675.5
72.5°	829.1	831.2	943.2	1177.7	1428.8	2928.3	10035.1	11691.2	11288.6	8367.6	6231.1
75°	595.6	598.7	666.2	901.7	1317.8	1601.1	6673.1	8791.0	8588.6	6707.4	4286.5
77.5°	378.7	382.9	442.0	631.9	1064.6	1292.9	4045.8	6206.2	5714.3	3779.1	1524.3
80°	231.4	244.9	294.7	471.1	850.9	970.2	2022.4	3269.6	2861.8	1036.6	512.6
82.5°	119.3	129.7	177.4	291.6	586.3	851.9	1144.5	1373.9	886.2	433.7	272.9
85°	37.4	43.6	62.3	118.3	279.1	528.2	757.5	682.8	406.8	204.4	126.6
87.5°	9.3	9.3	10.4	10.4	11.4	23.9	146.3	154.6	107.9	64.3	51.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3924.4	3924.4	3924.4	3924.4	3924.4	3924.4	3924.4	3924.4	3924.4	3924.4	3924.4
2.5°	3897.4	3872.5	3862.1	3861.1	3835.2	3797.8	3772.9	3755.3	3744.9	3742.8	3742.8
5°	3827.9	3795.7	3753.2	3721.0	3651.5	3580.9	3521.8	3488.6	3450.2	3445.0	3444.0
7.5°	3735.5	3688.9	3607.9	3517.6	3396.2	3279.0	3179.4	3111.9	3044.5	3032.0	3027.9
10°	3635.9	3572.6	3434.6	3275.9	3094.3	2918.9	2766.4	2647.0	2568.2	2512.2	2501.8
12.5°	3537.4	3453.3	3251.0	3014.4	2765.3	2525.6	2296.3	2101.2	1960.1	1878.1	1863.6
15°	3445.0	3327.7	3050.7	2748.7	2425.0	2097.1	1772.3	1519.1	1320.9	1250.4	1233.8
17.5°	3361.0	3214.6	2856.7	2473.8	2070.1	1641.6	1272.2	1047.0	930.8	895.5	887.2
20°	3276.9	3098.4	2659.5	2184.3	1693.4	1213.0	929.7	823.9	780.3	766.8	762.7
22.5°	3186.6	2970.8	2444.7	1898.9	1312.6	907.9	760.6	713.9	700.4	701.5	700.4
25°	3096.4	2841.1	2219.5	1588.6	977.5	736.7	664.1	646.5	649.6	658.9	661.0
27.5°	3021.6	2725.9	1998.5	1248.3	763.7	634.0	599.8	598.7	610.1	622.6	624.7
30°	2967.7	2623.2	1780.6	959.8	628.8	563.4	550.0	556.2	569.7	579.0	582.1
32.5°	2929.3	2535.0	1548.2	754.4	551.0	513.6	507.4	513.6	521.9	531.3	533.4
35°	2915.8	2470.6	1319.9	615.3	498.1	477.3	473.2	476.3	480.4	485.6	487.7
37.5°	2945.9	2438.5	1081.2	535.4	465.9	453.5	447.2	445.2	446.2	448.3	449.3
40°	3035.1	2453.0	886.2	488.7	445.2	433.7	423.4	419.2	418.2	420.2	419.2
42.5°	3188.7	2514.2	745.0	461.8	428.6	411.9	400.5	396.4	396.4	401.6	401.6
45°	3413.9	2634.6	643.3	442.0	414.0	393.3	380.8	378.7	382.9	391.2	392.2
47.5°	3743.8	2811.0	582.1	427.5	400.5	376.7	364.2	363.2	371.5	385.0	386.0
50°	4135.0	3065.2	548.9	417.1	391.2	363.2	350.7	351.8	361.1	375.6	378.7
52.5°	4606.1	3411.8	551.0	413.0	386.0	354.9	342.4	340.3	349.7	364.2	367.3
55°	5092.8	3833.1	591.5	414.0	378.7	350.7	334.1	326.9	335.2	345.5	346.6
57.5°	5628.2	4308.3	692.1	411.9	369.4	346.6	326.9	310.3	315.4	321.7	324.8
60°	6232.1	4867.6	909.0	416.1	365.3	337.2	312.3	290.5	289.5	293.7	294.7
62.5°	7039.4	5628.2	1152.8	423.4	374.6	325.8	290.5	267.7	263.6	265.6	266.7
65°	7656.8	5991.4	1076.0	417.1	394.3	317.5	269.8	245.9	237.6	235.5	235.5
67.5°	7405.7	5511.0	749.2	400.5	403.6	318.6	253.2	223.1	212.7	207.5	206.5
70°	6301.7	4476.4	520.9	383.9	393.3	316.5	235.5	204.4	190.9	183.7	182.6
72.5°	4978.7	3418.0	421.3	350.7	357.0	285.4	209.6	183.7	172.3	162.9	162.9
75°	3204.3	2085.7	351.8	312.3	291.6	222.1	181.6	163.9	152.5	143.2	143.2
77.5°	1078.1	774.1	272.9	264.6	217.9	167.1	152.5	141.1	131.8	123.5	122.4
80°	437.9	367.3	200.3	200.3	152.5	127.6	119.3	114.1	107.9	97.5	97.5
82.5°	254.2	223.1	140.1	121.4	101.7	88.2	83.0	77.8	77.8	70.6	70.6
85°	122.4	123.5	84.0	74.7	58.1	50.8	48.8	45.7	44.6	40.5	39.4
87.5°	66.4	67.4	42.5	33.2	22.8	19.7	16.6	15.6	14.5	13.5	13.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)